BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:-Development of Roads and Drains in Ward No.10 Vidyaranyapura Sub Division

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
							Estimation Cost.Rs		20000000.00
1	KSRRB 300-1. **Earthwork excavation by manual means for roads,** drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications(P.No-143 &136 ,I No-19.1&17.4& 17.1) 5km lead= 57+2.0x1.28x5 =69.80								
	New Drain								
	vemanna Layout Main Road near gas goden	cum	1.00	7.00	1.50	1.10	11.55		
	2nd Cross Gas Goden Road	cum	1.00	8.00	1.80	1.10	15.84		
	R chandrappa Layout	cum	5.00	7.00	1.80	0.90	56.70		
	Drain Desilting								
	Doddabommasandra Govt School to Ramachandrapura Main Road								
	LHS	Cum	1.00	72.00	0.90	0.70	45.36		
	LHS	Cum	1.00	202.00	0.60	0.90	109.08		
		Cum	2.00	170.50	0.60	0.50	102.30		
	S. Narasayya Layout 1st Main	Cum	2.00	139.00	0.60	0.50	83.40		
	Vemanna Layout Main Road	Cum	2.00	174.00	0.60	0.60	125.28		
	2nd Cross Gas Goden Road	Cum	2.00	198.00	0.60	0.60	142.56		
	Patel Pillegowda Layout 1st Cross road	Cum	2.00	122.00	0.60	0.60	87.84		
	Patel Pillegowda Layout 2nd Cross road	Cum	2.00	118.00	0.60	0.60	84.96		
	Patel Pillegowda Layout 3rd Cross road	Cum	2.00	128.00	0.60	0.60	92.16		
	Patel Pillegowda Layout 4th Cross road	Cum	2.00	118.00	0.60	0.60	84.96		
	Patel Pillegowda Layout 5th Cross road	Cum	2.00	119.00	0.60	0.60	85.68		
	Patel Pillegowda Layout 6th Cross road	Cum	2.00	120.00	0.60	0.60	86.40		
	Patel Pillegowda Layout 7th Cross road	Cum	2.00	113.00	0.60	0.60	81.36		
	Chamundeshwari Layout								
	6th main Road	Cum	1.00	193.00	0.60	0.60	69.48		
	Nanjappa Layout								
	1stA Main Road	Cum	2.00	124.00	0.60	0.60	89.28		
	1st main road (muneshwara temple to 4th cross road)	Cum	2.00	181.00	0.60	0.60	130.32		
	1st Main Road	Cum	2.00	348.00	0.60	0.60	250.56		
	12th cross road C Ramayya layout	Cum	2.00	137.00	0.60	0.60	98.64		
	11th cross road C Ramayya layout	Cum	2.00	137.00	0.60	0.60	98.64		
	10th cross road	Cum	2.00	137.00	0.60	0.60	98.64		
	8th cross road	Cum	2.00	129.00	0.60	0.60	92.88		

Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
	Ashwath Katte back side Road	Cum	2.00	100.00	0.60	0.60	72.00		
	Ashwath Katte Road	Cum	2.00	154.00	0.60	0.60	110.88		
	3rd main Road near (Ashwath Katte Road)	Cum	2.00	282.00	0.60	0.60	203.04		
	Basic rate	130.00							
	Area weightage 6%	7.80							
	5Km lead & Lift= 57+(2*1.28*5)	69.80							
	Sub Total	**207.60**							
	Total						**2609.79**	**207.60**	**541792.40**
2	Removing and refixing stone slabs of drains and pointing in CM (1:3) (P.No.27-I.No.5.33)								
	Drain Cover Slab								
	Doddabommasandra Govt School to Ramachandrapura Main Road								
		Sqm	2.00	170.50	0.90		306.90		
	S. Narasayya Layout 1st Main	Sqm	2.00	139.00	0.75		208.50		
	Vemanna Layout Main Road	Sqm	2.00	174.00	0.90		313.20		
	2nd Cross Gas Goden Road	Sqm	2.00	198.00	0.90		356.40		
	Patel Pillegowda Layout 1st Cross road	Sqm	2.00	122.00	0.90		219.60		
	Patel Pillegowda Layout 2nd Cross road	Sqm	2.00	118.00	0.90		212.40		
	Patel Pillegowda Layout 3rd Cross road	Sqm	2.00	128.00	0.90		230.40		
	Patel Pillegowda Layout 4th Cross road	Sqm	2.00	118.00	0.90		212.40		
	Patel Pillegowda Layout 5th Cross road	Sqm	2.00	119.00	0.90		214.20		
	Patel Pillegowda Layout 6th Cross road	Sqm	2.00	120.00	0.90		216.00		
	Patel Pillegowda Layout 7th Cross road	Sqm	2.00	113.00	0.90		203.40		
	Chamundeshwari Layout								
	6th main Road	Sqm	1.00	193.00	0.90		173.70		
	Nanjappa Layout								
	1stA Main Road	Sqm	2.00	124.00	0.90		223.20		
	1st main road (muneshwara temple to 4th cross road)	Sqm	2.00	181.00	0.90		325.80		
	1st Main Road	Sqm	2.00	348.00	0.90		626.40		
	12th cross road C Ramayya layout	Sqm	2.00	137.00	0.90		246.60		
	11th cross road C Ramayya layout	Sqm	2.00	137.00	0.90		246.60		
	10th cross road	Sqm	2.00	137.00	0.90		246.60		
	8th cross road	Sqm	2.00	129.00	0.90		232.20		
	Ashwath Katte back side Road	Sqm	2.00	100.00	0.90		180.00		
	Ashwath Katte Road	Sqm	2.00	154.00	0.90		277.20		
	3rd main Road near (Ashwath Katte Road)	Sqm	2.00	282.00	0.90		507.60		

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
						Sub Total	5979.30		
	Deduct 10% for Missing/Damaged						597.93		
							5381.37		
	Consider 5% Qnty for Removing & Refixing						269.07		
	BS Slab Drain (Sides & Bottom)		Width=Perimeter of Drain in U Shape						
	S. Narasayya Layout 1st Main	Sqm	2.00	139.00	1.60		444.80		
						Sub Total	444.80		
						Total	444.80		
	Deduct 10% for Missing/Damaged						44.48		
							400.32		
	Consider 5% Qnty for Removing & Refixing						20.02		
	Basic rate	105.00							
	Area weightage 6%	6.30							
	Sub Total	**111.30**							
	Total						**289.08**	**111.30**	**32175.10**
3	Providing granite slabs of selected quality roughly dressed havinf a size of 7.5 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete.								
	BS Slab Drain (Sides & Bottom)	**Sqm**							
	Provide 10 % Qnty for missing and Damaged		**From Item No 2**				**44.48**		
	Basic rate	700.00							
	Area weightage 6%	42.00							
	Sub Total	**742.00**							
	Total						**44.48**	**742.00**	**33004.16**
4	**Providing granite slabs of selected quality roughly dressed havinf a size of 10 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete.**								
	Drain Cover Slab	**Sqm**							
	Provide 10 % Qnty for missing and Damaged		**From Item No.2**				**597.93**		
	Basic rate	912.00							
	Area weightage 6%	54.72							
	Sub Total	**966.72**							
	Total						**597.93**	**966.72**	**578030.89**
5	KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13								
	SSM Drain	Cum							
	Doddabommasandra Govt School to Ramachandrapura Main Road								
	LHS	Cum	2.00	202.00	0.45	0.90	163.62		
						Sub Total	163.62		

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	Provide 40% qnty for missing and Damaged						65.45		
	Basic rate	5483.00							
	Area weightage 6%	328.98							
	Sub Total	5811.98							
	Total						65.45	5811.98	380382.47
6	KSRB 15.1.3 – do – Providing ruled pointing to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. Pg no:115 Item no:15.3								
	SSM Drain								
	Doddabommasandra Govt School to Ramachandrapura Main Road								
	LHS	Sqm	2.00	202.00		0.90	363.60		
						Sub Total	**363.60**		
	Provide 40% qnty for missing and Damaged						**145.44**		
	Basic rate	142.00							
	Area weightage 6%	8.52							
	Sub Total	150.52							
	Total						**145.44**	**150.52**	**21891.63**
7	KSRRB M2100 PCC 1 KSRRB M2100-10. Providing and laying Plain cement concrete of mix1:3:6 with OPC cement @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days Including cost of materials,labour, HOM curing form work, Scaffolding and Centering complete as per specifications.MORTH Specification No. 2100 Pg no:222 Item no:27.18								
	For Culvert								
	vemanna Layout Main Road near gas goden	cum	1.00	7.00	1.50	0.15	1.58		
	2nd Cross Gas Goden Road	cum	1.00	8.00	1.80	0.15	2.16		
	R chandrappa Layout	cum	5.00	7.00	1.80	0.15	9.45		
	Basic rate	5115.00							
	Area weightage 6%	306.90							
	Sub Total	5421.90							
	Total						**13.19**	**5421.90**	**71487.75**
8	Providing laying plain/ reinforced cement concrete for side Drains Using M20 nominal mix Concrete with OPC at 300kgs.With 20mm and Down size granite metal coarse aggregate at 0.69cum and fine aggregate at 0.43cum Machne mixed, well compacted for wall and Bottom including centering shuttering,cost of materials,HOM of Machinery,Curing Etc.,Complete Excluding cost of Steel as per morth MORTH specification No. 1500, 1700, 2200. Including Cost of material, Labour, HOM complete as per Specification-WALL & Bottom thickness 15Cm(Item No 37.59.2 page no 271)								
	Vent Bed								
	Doddabommasandra Govt School to Ramachandrapura Main Road								
	LHS	Cum	1.00	202.00	0.60	0.10	12.12		

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
						Sub Total	12.12		
	For New Culvert								
	vemanna Layout Main Road near gas goden								
	Bottom Slab	cum	1.00	7.00	1.50	0.20	2.10		3 cul
	Side Walls	cum	2.00	7.00	0.20	0.75	2.10		
	2nd Cross Gas Goden Road								
	Bottom Slab	cum	1.00	8.00	1.80	0.20	2.88		
	Side Walls	cum	2.00	8.00	0.20	0.75	2.40		
	R chandrappa Layout								
	Bottom Slab	cum	5.00	7.00	1.80	0.20	12.60		
	Side Walls	cum	10.00	7.00	0.20	0.75	10.50		
						Sub Total	**32.58**		
	Basic rate	6670.00							
	Area weightage 6%	400.20							
	Sub Total	7070.20							
	Total						**44.70**	**7070.20**	**316037.94**
9	KSRB M2200-6 Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. MORTH Specification NO.1600&2200Specification No. Pg No.229 Item No.28.8.2								
	For Culvert	**Cum**	**From item No 08**				**32.58**		
			Steel assumed 90Kg/Cum of Concrete				**2932.20**		
		tonne					**2.93**		
	Basic rate	68233.00							
	Area weightage 6%	4093.98							
	Sub Total	72326.98							
	Total						**2.93**	**72326.98**	**212077.17**
10	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete. (Data Rate)								
	Drain								
	Doddabommasandra Govt School to Ramachandrapura Main Road								
	LHS	Sqm	1.00	72.00	0.90		64.80		
	LHS	Sqm	1.00	202.00	1.50		303.00		
	Data rate	**2337.00**							
	Total						**367.80**	**2337.00**	**859548.60**
11	Providing and Fixing pre cast covering Slab 250mm thick made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incha								
	Culvert								

Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
	vemanna Layout Main Road near gas goden	Sqm	1.00	7.00	1.50		10.50		
	2nd Cross Gas Goden Road	Sqm	1.00	8.00	1.80		14.40		
	R chandrappa Layout	Sqm	5.00	7.00	1.80		63.00		
	Data rate	**5418.00**							
	Total						**87.90**	**5418.00**	**476242.20**
12	KSRRB M300-14. **Excavation for roadwork in all types of soil** by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301Loading and unloading with 10km lead= (I No-19.14,P No-143)								
	Road cut portion								
	Doddabommasandra Govt School to Ramachandrapura Main Road	Cum	1.00	23.00	1.80	0.23	9.52		
	S. Narasayya Layout 1st Main	Cum	1.00	13.00	1.80	0.23	5.38		
	Vemanna Layout Main Road	Cum	1.00	20.00	2.00	0.23	9.20		
	2nd Cross Gas Goden Road	Cum	1.00	30.00	0.80	0.23	5.52		
	Patel Pillegowda Layout 1st Cross road	Cum	1.00	13.00	1.00	0.23	2.99		
	Patel Pillegowda Layout 2nd Cross road	Cum	1.00	47.00	1.00	0.23	10.81		
	Patel Pillegowda Layout 3rd Cross road	Cum	1.00	29.00	0.50	0.23	3.34		
	Patel Pillegowda Layout 4th Cross road	Cum	1.00	28.00	0.40	0.23	2.58		
	Patel Pillegowda Layout 5th Cross road	Cum	1.00	26.00	0.60	0.23	3.59		
	Patel Pillegowda Layout 6th Cross road	Cum	1.00	18.00	0.90	0.23	3.73		
	Patel Pillegowda Layout 7th Cross road	Cum	1.00	52.00	0.90	0.23	10.76		
	2nd Main road	Cum	1.00	30.00	0.50	0.23	3.45		
	Chamundeshwari Layout								
	6th main Road	Cum	1.00	15.00	1.00	0.23	3.45		
	Nanjappa Layout		1.00	10.00	0.40	0.23	0.92		
	1stA Main Road	Cum	1.00	6.00	0.40	0.23	0.55		
		Cum	1.00	10.00	0.90	0.23	2.07		
	1st main road (muneshwara temple to 4th cross road)	Cum	1.00	10.00	1.00	0.23	2.30		
		Cum	1.00	6.00	0.60	0.23	0.83		
	1st Main Road	Cum	1.00	20.00	1.20	0.23	5.52		
		Cum	1.00	6.00	0.60	0.23	0.83		
	12th cross road C Ramayya layout	Cum	1.00	20.00	1.00	0.23	4.60		
		Cum	1.00	6.00	0.60	0.23	0.83		
	11th cross road C Ramayya layout	Cum	1.00	10.00	0.60	0.23	1.38		
			1.00	10.00	1.00	0.23	2.30		
	10th cross road	Cum	1.00	10.00	1.00	0.23	2.30		
			1.00	10.00	0.60	0.23	1.38		

Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
			1.00	6.00	0.50	0.23	0.69		
	8th cross road	Cum	1.00	20.00	1.10	0.23	5.06		
			1.00	10.00	6.00	0.23	13.80		
	Ashwath Katte back side Road	Cum	1.00	10.00	1.00	0.23	2.30		
			1.00	6.00	0.60	0.23	0.83		
	Ashwath Katte Road	Cum	1.00	20.00	1.10	0.23	5.06		
			1.00	9.00	0.60	0.23	1.24		
	3rd main Road near (Ashwath Katte Road)	Cum	1.00	10.00	1.00	0.23	2.30		
			1.00	18.00	0.50	0.23	2.07		
	Doddabommasandra Arch to Ramchandrapura main road	Cum	1.00	10.00	1.00	0.23	2.30		
		Cum	1.00	6.00	6.00	0.23	8.28		
		Cum	1.00	8.00	0.60	0.23	1.10		
	for UGD cut portion								
	2nd Cross Gas Goden Road	Cum	1.00	198.00	1.20	0.23	54.65		
	Basic rate	41.00							
	Area weightage 6%	2.46							
	5Km lead= (2*1.28*5)	12.80							
	Sub Total	**56.26**							
	Total						**199.80**	**56.26**	**11240.80**
13.00	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications Clause 401 of MORTH V Revision.(I No-20.5,P No-153)								
	for UGD cut portion								
	2nd Cross Gas Goden Road	Cum	1.00	198.00	1.20	0.15	35.64		
	Basic rate	1882.00							
	Area weightage 6%	112.92							
	Sub Total	1994.92							
	Total						**35.64**	**1994.92**	**71098.95**
14	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to **wet mix macadam** specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications(P.No-155,I No-20.18)								
	Road cut portion								
	Doddabommasandra Govt School to Ramachandrapura Main Road	Cum	1.00	23.00	1.80	0.23	9.52		
	S. Narasayya Layout 1st Main	Cum	1.00	13.00	1.80	0.23	5.38		
	Vemanna Layout Main Road	Cum	1.00	20.00	2.00	0.23	9.20		

Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
	2nd Cross Gas Goden Road	Cum	1.00	30.00	0.80	0.23	5.52		
	Patel Pillegowda Layout 1st Cross road	Cum	1.00	13.00	1.00	0.23	2.99		
	Patel Pillegowda Layout 2nd Cross road	Cum	1.00	47.00	1.00	0.23	10.81		
	Patel Pillegowda Layout 3rd Cross road	Cum	1.00	29.00	0.50	0.23	3.34		
	Patel Pillegowda Layout 4th Cross road	Cum	1.00	28.00	0.40	0.23	2.58		
	Patel Pillegowda Layout 5th Cross road	Cum	1.00	26.00	0.60	0.23	3.59		
	Patel Pillegowda Layout 6th Cross road	Cum	1.00	18.00	0.90	0.23	3.73		
	Patel Pillegowda Layout 7th Cross road	Cum	1.00	52.00	0.90	0.23	10.76		
	2nd Main road	Cum	1.00	30.00	0.50	0.23	3.45		
	Chamundeshwari Layout								
	6th main Road	Cum	1.00	15.00	1.00	0.23	3.45		
	Nanjappa Layout								
	1stA Main Road	Cum	1.00	8.00	0.40	0.23	0.74		
		Cum	1.00	10.00	0.90	0.23	2.07		
	1st main road (muneshwara temple to 4th cross road)	Cum	1.00	10.00	1.00	0.23	2.30		
		Cum	1.00	8.00	0.60	0.23	1.10		
	1st Main Road	Cum	1.00	20.00	1.20	0.23	5.52		
		Cum	1.00	8.00	0.60	0.23	1.10		
	12th cross road C Ramayya layout	Cum	1.00	20.00	1.00	0.23	4.60		
		Cum	1.00	6.00	0.60	0.23	0.83		
	11th cross road C Ramayya layout	Cum	1.00	10.00	0.60	0.23	1.38		
		Cum	1.00	10.00	1.00	0.23	2.30		
	10th cross road	Cum	1.00	10.00	1.00	0.23	2.30		
		Cum	1.00	10.00	0.60	0.23	1.38		
		Cum	1.00	6.00	0.50	0.23	0.69		
	8th cross road	Cum	1.00	20.00	1.10	0.23	5.06		
		Cum	1.00	10.00	6.00	0.23	13.80		
	Ashwath Katte back side Road	Cum	1.00	10.00	1.00	0.23	2.30		
		Cum	1.00	6.00	0.60	0.23	0.83		
	Ashwath Katte Road	Cum	1.00	20.00	1.10	0.23	5.06		
		Cum	1.00	9.00	0.60	0.23	1.24		
	3rd main Road near (Ashwath Katte Road)	Cum	1.00	10.00	1.00	0.23	2.30		
		Cum	1.00	20.00	0.50	0.23	2.30		
	Doddabommasandra Arch to Ramchandrapura main road	Cum	1.00	10.00	1.00	0.23	2.30		
		Cum	1.00	6.00	6.00	0.23	8.28		
		Cum	1.00	8.00	0.60	0.23	1.10		
	for UGD cut portion								
	2nd Cross Gas Goden Road	Cum	1.00	198.00	1.20	0.23	54.65		
	Basic rate	1888.00							

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	Area weightage 6%	113.28							
	Sub Total	**2001.28**							
	Total						**199.85**	**2001.28**	**399949.80**
15	KSRRB 500-1.Cleaning the existing WBM Road surface including removing of binding materials and other foreign matter with wire brushes and small picks sweeping with brooms or soft brushes and finally dusting with old gunny bags and bar or compressed air to receive bituminous treatment including cost of all materials, labhour, HOM of machineries complet as per specifications.(P.No.158,I.No.21.1)								
	Road cut portion								
	Doddabommasandra Govt School to Ramachandrapura Main Road	Sqm	1.00	23.00	1.80		41.40		
	S. Narasayya Layout 1st Main	Sqm	1.00	13.00	1.80		23.40		
	Vemanna Layout Main Road	Sqm	1.00	20.00	2.00		40.00		
	2nd Cross Gas Goden Road	Sqm	1.00	30.00	0.80		24.00		
	Patel Pillegowda Layout 1st Cross road	Sqm	1.00	13.00	1.00		13.00		
	Patel Pillegowda Layout 2nd Cross road	Sqm	1.00	47.00	1.00		47.00		
	Patel Pillegowda Layout 3rd Cross road	Sqm	1.00	29.00	0.50		14.50		
	Patel Pillegowda Layout 4th Cross road	Sqm	1.00	28.00	0.40		11.20		
	Patel Pillegowda Layout 5th Cross road	Sqm	1.00	26.00	0.60		15.60		
	Patel Pillegowda Layout 6th Cross road	Sqm	1.00	18.00	0.90		16.20		
	Patel Pillegowda Layout 7th Cross road	Sqm	1.00	52.00	0.90		46.80		
	2nd Main road	Sqm	1.00	30.00	0.50		15.00		
	Chamundeshwari Layout	Sqm							
	6th main Road	Sqm	1.00	15.00	1.00		15.00		
	Nanjappa Layout	Sqm							
	1stA Main Road	Sqm	1.00	8.00	0.40		3.20		
		Sqm	1.00	10.00	0.90		9.00		
	1st main road (muneshwara temple to 4th cross road)	Sqm	1.00	10.00	1.00		10.00		
		Sqm	1.00	8.00	0.60		4.80		
	1st Main Road	Sqm	1.00	20.00	1.20		24.00		
		Sqm	1.00	8.00	0.60		4.80		
	12th cross road C Ramayya layout	Sqm	1.00	20.00	1.00		20.00		
		Sqm	1.00	6.00	0.60		3.60		
	11th cross road C Ramayya layout	Sqm	1.00	10.00	0.60		6.00		
		Sqm	1.00	10.00	1.00		10.00		
	10th cross road	Sqm	1.00	10.00	1.00		10.00		
		Sqm	1.00	10.00	0.60		6.00		
		Sqm	1.00	6.00	0.50		3.00		
	8th cross road	Sqm	1.00	20.00	1.10		22.00		
		Sqm	1.00	10.00	6.00		60.00		
	Ashwath Katte back side Road	Sqm	1.00	10.00	1.00		10.00		
		Sqm	1.00	6.00	0.60		3.60		

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	Ashwath Katte Road	Sqm	1.00	20.00	1.10		22.00		
		Sqm	1.00	9.00	0.60		5.40		
	3rd main Road near (Ashwath Katte Road)	Sqm	1.00	10.00	1.00		10.00		
		Sqm	1.00	20.00	0.50		10.00		
	Doddabommasandra Arch to Ramchandrapura main road	Sqm	1.00	10.00	1.00		10.00		
		Sqm	1.00	6.00	6.00		36.00		
		Sqm	1.00	8.00	0.60		4.80		
	for UGD cut portion								
	2nd Cross Gas Goden Road	Sqm	1.00	198.00	1.20		237.60		
	Basic rate	21.00							
	Area weightage 6%	1.26							
	Sub Total	**22.26**							
	Total						**868.90**	**22.26**	**19341.71**
16	KSRRB M500-6. Providing and applying **primer coat** with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications Clause 502 of MORTH V revision(P.No-158,I No-21.6)								
	Road cut portion	Sqm	From Item num 15				868.90		
	for old Road Provide 10% Profile Correction	Sqm	from item no 18 =(31198.87X15%)=4679.83				4679.83		
	Basic rate	27.00							
	Area weightage 6%	1.62							
	Sub Total	**28.62**							
	Total						**5548.73**	**28.62**	**158804.65**
17	KSRRB M500-17. Providing and laying **dense graded bituminous macadam** using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No-160,I No-21.17.6)								
	old Road								
	for old Road Provide 10% Profile Correction		from item no 18 =(31198.87X15%)=4679.83				31198.87		
		Cum		4679.83		0.05	233.99		
	Road cut portion								
	Doddabommasandra Govt School to Ramachandrapura Main Road	Cum	1.00	23.00	1.80	0.05	2.07		
	S. Narasayya Layout 1st Main	Cum	1.00	13.00	1.80	0.05	1.17		
	Vemanna Layout Main Road	Cum	1.00	20.00	2.00	0.05	2.00		
	2nd Cross Gas Goden Road	Cum	1.00	30.00	0.80	0.05	1.20		
	Patel Pillegowda Layout 1st Cross road	Cum	1.00	13.00	1.00	0.05	0.65		

Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
	Patel Pillegowda Layout 2nd Cross road	Cum	1.00	47.00	1.00	0.05	2.35		
	Patel Pillegowda Layout 3rd Cross road	Cum	1.00	29.00	0.50	0.05	0.73		
	Patel Pillegowda Layout 4th Cross road	Cum	1.00	28.00	0.40	0.05	0.56		
	Patel Pillegowda Layout 5th Cross road	Cum	1.00	26.00	0.60	0.05	0.78		
	Patel Pillegowda Layout 6th Cross road	Cum	1.00	18.00	0.90	0.05	0.81		
	Patel Pillegowda Layout 7th Cross road	Cum	1.00	52.00	0.90	0.05	2.34		
	2nd Main road	Cum	1.00	30.00	0.50	0.05	0.75		
	Chamundeshwari Layout								
	6th main Road	Cum	1.00	15.00	1.00	0.05	0.75		
	Nanjappa Layout								
	1stA Main Road	Cum	1.00	8.00	0.40	0.05	0.16		
		Cum	1.00	10.00	0.90	0.05	0.45		
	1st main road (muneshwara temple to 4th cross road)	Cum	1.00	10.00	1.00	0.05	0.50		
		Cum	1.00	8.00	0.60	0.05	0.24		
	1st Main Road	Cum	1.00	20.00	1.20	0.05	1.20		
		Cum	1.00	8.00	0.60	0.05	0.24		
	12th cross road C Ramayya layout	Cum	1.00	20.00	1.00	0.05	1.00		
		Cum	1.00	6.00	0.60	0.05	0.18		
	11th cross road C Ramayya layout	Cum	1.00	10.00	0.60	0.05	0.30		
		Cum	1.00	10.00	1.00	0.05	0.50		
	10th cross road	Cum	1.00	10.00	1.00	0.05	0.50		
		Cum	1.00	10.00	0.60	0.05	0.30		
		Cum	1.00	6.00	0.50	0.05	0.15		
	8th cross road	Cum	1.00	20.00	1.10	0.05	1.10		
		Cum	1.00	10.00	6.00	0.05	3.00		
	Ashwath Katte back side Road	Cum	1.00	10.00	1.00	0.05	0.50		
		Cum	1.00	6.00	0.60	0.05	0.18		
	Ashwath Katte Road	Cum	1.00	20.00	1.10	0.05	1.10		
		Cum	1.00	9.00	0.60	0.05	0.27		
	3rd main Road near (Ashwath Katte Road)	Cum	1.00	10.00	1.00	0.05	0.50		
		Cum	1.00	20.00	0.50	0.05	0.50		
	Doddabommasandra Arch to Ramchandrapura main road	Sqm	1.00	10.00	1.00	0.05	0.50		
		Sqm	1.00	6.00	6.00	0.05	1.80		
		Sqm	1.00	8.00	0.60	0.05	0.24		
	for UGD cut portion								
	2nd Cross Gas Goden Road	Cum	1.00	198.00	1.20	0.05	11.88		
	Basic rate	6224.00							
	Area weightage 6%	373.44							
	Sub Total	**6597.44**							
	Total						**277.44**	**6597.44**	**1830370.66**

Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
18	KSRRB 500-2.Cleaning the existing black topped surface with brooms,soft brushes and finally dusting with old gunny bags and/or compressed air to receive bituminous treatment including cost of all materials,labhour, HOM of machineries complete as per specifications.(P.No.158,I.No.21.2).								
	Old Roads								
	Doddabommasandra Govt School to Ramachandrapura Main Road	Sqm	1.00	887.00	7.03		6238.57		
	S. Narasayya Layout 1st Main	Sqm	1.00	139.00	5.50		764.50		
	1St main Mutturay Swami Layout	Sqm	1.00	232.00	5.30		1229.60		
	Vemanna Layout Main Road	Sqm	1.00	174.00	7.10		1235.40		
	2nd Cross Gas Goden Road	Sqm	1.00	198.00	4.80		950.40		
	Patel Pillegowda Layout 1st Cross road	Sqm	1.00	122.00	6.30		768.60		
	Patel Pillegowda Layout 2nd Cross road	Sqm	1.00	118.00	4.30		507.40		
	Patel Pillegowda Layout 3rd Cross road	Sqm	1.00	128.00	5.10		652.80		
	Patel Pillegowda Layout 4th Cross road	Sqm	1.00	118.00	5.30		625.40		
	Patel Pillegowda Layout 5th Cross road	Sqm	1.00	119.00	5.50		654.50		
	Patel Pillegowda Layout 6th Cross road	Sqm	1.00	120.00	5.70		684.00		
	Patel Pillegowda Layout 7th Cross road	Sqm	1.00	113.00	5.30		598.90		
	Durga Shreyas Appartment	Sqm	1.00	73.00	5.70		416.10		
	2nd Main road	Sqm	1.00	211.00	4.70		991.70		
	Chamundeshwari Layout								
	6th main Road	Sqm	1.00	193.00	4.80		926.40		
	Nanjappa Layout								
	1stA Main Road	Sqm	1.00	124.00	4.80		595.20		
	1st main road (muneshwara temple to 4th cross road)	Sqm	1.00	181.00	5.00		905.00		
	1st Main Road	Sqm	1.00	348.00	5.00		1740.00		
	12th cross road C Ramayya layout	Sqm	1.00	137.00	5.50		753.50		
	11th cross road C Ramayya layout	Sqm	1.00	137.00	5.10		698.70		
	10th cross road	Sqm	1.00	137.00	5.00		685.00		
	8th cross road	Sqm	1.00	129.00	5.80		748.20		
	Ashwath Katte back side Road	Sqm	1.00	100.00	4.50		450.00		
	Ashwath Katte Road	Sqm	1.00	154.00	3.90		600.60		
	3rd main Road near (Ashwath Katte Road)	Sqm	1.00	282.00	5.50		1551.00		
	Doddabommasandra Arch to Ramchandrapura main road	Sqm	1.00	886.00	5.90		5227.40		
						Sub Total	**31198.87**		
	Basic rate	5.00							
	Area weightage 6%	0.30							
	Sub Total	**5.30**							

Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
	Total						**31198.87**	**5.30**	**165353.99**
19	KSRRB 500-7. Providing and **applying tack coat** using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications (P.No-161,I No-21.7)								
	Road	Sqm	From Item num .18				31198.87		
	Basic rate	12.00							
	Area weightage 6%	0.72							
	Sub Total	**12.72**							
	Total						**31198.87**	**12.72**	**396849.58**
20	Providing and laying Bituminous Concrete 40 mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment , rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications.Clause 507 of MORTH V revision as per IRC SP-53-2015 - using 40-60 TPH capacity HMP with mechanical Paver, Gr-II (30-45mm) with 5.4 % of modified bitumen binder consisting of 4.97% VG- 30 bitumen (60/70 grade) 0.43% Plastomeric Thermoplastics (Waste plastic Additive). (P.No-171I No-21.78.12)								
	For old Roads								
	Doddabommasandra Govt School to Ramachandrapura Main Road	Cum	1.00	887.00	7.03	0.04	249.54		
	S. Narasayya Layout 1st Main	Cum	1.00	139.00	5.50	0.04	30.58		
	1St main Mutturay Swami Layout	Cum	1.00	232.00	5.30	0.04	49.18		
	Vemanna Layout Main Road	Cum	1.00	174.00	7.10	0.04	49.42		
	2nd Cross Gas Goden Road	Cum	1.00	198.00	4.80	0.04	38.02		
	Patel Pillegowda Layout 1st Cross road	Cum	1.00	122.00	6.30	0.04	30.74		
	Patel Pillegowda Layout 2nd Cross road	Cum	1.00	118.00	4.30	0.04	20.30		
	Patel Pillegowda Layout 3rd Cross road	Cum	1.00	128.00	5.10	0.04	26.11		
	Patel Pillegowda Layout 4th Cross road	Cum	1.00	118.00	5.30	0.04	25.02		
	Patel Pillegowda Layout 5th Cross road	Cum	1.00	119.00	5.50	0.04	26.18		
	Patel Pillegowda Layout 6th Cross road	Cum	1.00	120.00	5.70	0.04	27.36		
	Patel Pillegowda Layout 7th Cross road	Cum	1.00	113.00	5.30	0.04	23.96		
	Durga Shreyas Appartment	Cum	1.00	73.00	5.70	0.04	16.64		
	2nd Main road	Cum	1.00	211.00	4.70	0.04	39.67		
	Chamundeshwari Layout	Cum							
	6th main Road	Cum	1.00	193.00	4.80	0.04	37.06		
	Nanjappa Layout	Cum							
	1stA Main Road	Cum	1.00	124.00	4.80	0.04	23.81		
	1st main road (muneshwara temple to 4th cross road)	Cum	1.00	181.00	5.00	0.04	36.20		
	1st Main Road	Cum	1.00	348.00	5.00	0.04	69.60		
	12th cross road C Ramayya layout	Cum	1.00	137.00	5.50	0.04	30.14		

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	11th cross road C Ramayya layout	Cum	1.00	137.00	5.10	0.04	27.95		
	10th cross road	Cum	1.00	137.00	5.00	0.04	27.40		
	8th cross road	Cum	1.00	129.00	5.80	0.04	29.93		
	Ashwath Katte back side Road	Cum	1.00	100.00	4.50	0.04	18.00		
	Ashwath Katte Road	Cum	1.00	154.00	3.90	0.04	24.02		
	3rd main Road near (Ashwath Katte Road)	Cum	1.00	282.00	5.50	0.04	62.04		
	Doddabommasandra Arch to Ramchandrapura main road	Cum	1.00	886.00	5.90	0.04	209.10		
	Basic rate	7315.00							
	Area weightage 6%	438.90							
	Sub Total	**7753.90**							
	Total						**1247.95**	**7753.90**	**9676515.69**
21	KSRRB M800-13.**Road Marking with Hot Applied Thermoplastic Compound** with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803(P.No-182,I No-24.15)								
	For old Roads								
	Doddabommasandra Govt School to Ramachandrapura Main Road								
	at centre	Sqm	0.50	887.00	0.10		44.35		
	at Edge	Sqm	2.00	887.00	0.10		177.40		
	S. Narasayya Layout 1st Main								
	at centre	Sqm	0.50	139.00	0.10		6.95		
	at Edge	Sqm	2.00	139.00	0.10		27.80		
	1St main Mutturay Swami Layout								
	at centre	Sqm	0.50	232.00	0.10		11.60		
	at Edge	Sqm	2.00	232.00	0.10		46.40		
	Vemanna Layout Main Road								
	at centre	Sqm	0.50	174.00	0.10		8.70		
	at Edge	Sqm	2.00	174.00	0.10		34.80		
	2nd Cross Gas Goden Road								
	at centre	Sqm	0.50	198.00	0.10		9.90		
	Patel Pillegowda Layout 1st Cross road								
	at centre	Sqm	0.50	122.00	0.10		6.10		
	at Edge	Sqm	2.00	122.00	0.10		24.40		
	Patel Pillegowda Layout 2nd Cross road								
	at centre	Sqm	0.50	118.00	0.10		5.90		
	Patel Pillegowda Layout 3rd Cross road								
	at centre	Sqm	0.50	128.00	0.10		6.40		
	at Edge	Sqm	2.00	128.00	0.10		25.60		
	Patel Pillegowda Layout 4th Cross road								

Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
	at centre	Sqm	0.50	118.00	0.10		5.90		
	at Edge	Sqm	2.00	118.00	0.10		23.60		
	Patel Pillegowda Layout 5th Cross road								
	at centre	Sqm	0.50	119.00	0.10		5.95		
	at Edge	Sqm	2.00	119.00	0.10		23.80		
	Patel Pillegowda Layout 6th Cross road								
	at centre	Sqm	0.50	120.00	0.10		6.00		
	at Edge	Sqm	2.00	120.00	0.10		24.00		
	Patel Pillegowda Layout 7th Cross road								
	at centre	Sqm	2.00	113.00	0.10		22.60		
	at Edge	Sqm	2.00	113.00	0.10		22.60		
	Durga Shreyas Appartment								
	at centre	Sqm	0.50	73.00	0.10		3.65		
	at Edge	Sqm	2.00	73.00	0.10		14.60		
	2nd Main road								
	at centre	Sqm	0.50	211.00	0.10		10.55		
	at Edge	Sqm	2.00	211.00	0.10		42.20		
	Chamundeshwari Layout								
	6th main Road								
	at centre	Sqm	0.50	193.00	0.10		9.65		
	Nanjappa Layout								
	1stA Main Road								
	at centre	Sqm	0.50	124.00	0.10		6.20		
	1st main road (muneshwara temple to 4th cross road)								
	at centre	Sqm	0.50	181.00	0.10		9.05		
	1st Main Road								
	at centre	Sqm	0.50	348.00	0.10		17.40		
	12th cross road C Ramayya layout								
	at centre	Sqm	0.50	137.00	0.10		6.85		
	at Edge	Sqm	2.00	137.00	0.10		27.40		
	11th cross road C Ramayya layout								
	at centre	Sqm	0.50	137.00	0.10		6.85		
	at Edge	Sqm	2.00	137.00	0.10		27.40		
	10th cross road								
	at centre	Sqm	0.50	137.00	0.10		6.85		
	8th cross road								
	at centre	Sqm	0.50	129.00	0.10		6.45		
	at Edge	Sqm	2.00	129.00	0.10		25.80		

Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
	Ashwath Katte back side Road								
	at centre	Sqm	0.50	100.00	0.10		5.00		
	Ashwath Katte Road								
	at centre	Sqm	0.50	154.00	0.10		7.70		
	3rd main Road near (Ashwath Katte Road)								
	at centre	Sqm	0.50	282.00	0.10		14.10		
	at Edge	Sqm	2.00	282.00	0.10		56.40		
	Doddabommasandra Arch to Ramchandrapura main road								
	at centre	Sqm	0.50	886.00	0.10		44.30		
	at Edge	Sqm	2.00	886.00	0.10		177.20		
	Basic rate	429.00							
	Area weightage 6%	25.74							
	Sub Total	**454.74**							
	Total						**1096.35**	**454.74**	**498554.20**
								Grand Total	**16750750.37**
								DPR Charges (1% of estimated cost)	**200000.00**
								Project management And Consultancy Charges(1% of estimated cost)	**200000.00**
								GST Charges (12% of estimated cost)	**2010090.04**
								Tender Premium (5% of estimated Cost)	**837537.52**
								Miscellenious and rounding	**1622.07**
								Total Amount	**20000000.00**
									RUPEES TWO CRORE ONLY

CERTIFICATE:

1) The work spot has been inspected and found to be necessary
2) The work spot comes under B.B.M.P
3) The provisions made in the estimate are necessary and minimum
4) The estimate is based on C.S.R of 2018-2019,Issue rates and Data Rates.

Assistant Engineer
BBMP

Assistant Executive Engineer
BBMP

Executive Engineer
BBMP